Docket No.: 070602-0406

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PATENT

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of	Customer Number: 31824
Brian B. Jones	Confirmation Number: 9806
Application No.: 10/692,704	Group Art Unit: 2877
Filed: October 24, 2003	Examiner: Amanda H. Merlino
Patent No.: 7,119,903	
Issued: October 10, 2006	
For: METHOD AND SYSTEM FOR MEASURING DIFFERENTIAL SCATTERING OF LIGHT OFF OF SAMPLE SURFACES	

Certificate
JUN 15 2007
of Correction

Mail Stop Certificate of Correction
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CERTIFICATE OF CORRECTION UNDER 37 CFR 1.322

Sir:

In reviewing the above-identified patent, printing errors were discovered therein requiring correction in order to conform the Official Record in the application.

The errors noted is set forth on the two attached copies of form PTO-1050 Rev. 2-93 in the manner required by the Commissioner's Notice.

The changes requested herein occurred as a result of printing the Letters Patent and the Certificate should be issued without expense under Rule 322 of the Rules of Practice. Accordingly, Applicants request issuance of the Certificate of Correction.

JUN 15 2007

Please charge any shortage in fees due in connection with the filing of this paper to Deposit Account 502203 and please credit any excess fees to such deposit account.

Respectfully submitted,

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Please recognize our Customer No. 31824 as our correspondence address.

ORC 416445-1.070602.0406

UNITED STATES PATENT AND TRADEMARK OFFICE

CERTIFICATE OF CORRECTION

PATENT NO. : 7,119,903

DATED : October 10, 2006

INVENTOR(S) : Brian B. JONES

It is certified that errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

IN THE SPECIFICATION:

Column 6, Line 55: remove "(i.e.," after "integrand"

Column 10, line 20, replace: ${\rho_{spec}}^2 = {\rho_0}^2 - 2\rho_0 z_0 \cos\psi_0 \tan\theta_{spec} + {z_0}^2 \tan^2\theta_{spec}$.

with: $\rho_{spec}^2 = \rho_0^2 - 2\rho_0 z_0 \cos\psi_0 \tan\theta_{spec} + z_0^2 \tan^2\theta_{spec}$.

Column 10, line 22, replace: $0 \leq r \leq R$ with $0 < r \leq R$

Column 10, line 23, replace: $0 < \phi \leq 2\pi$. with $0 < \phi \leq 2\pi$.

Column 10, line 49, replace: $\rho^2 = {\rho_{spec}}^2 + r^2 + \rho_{spec} r \cos\psi_{spec} \cos\phi + \rho_{spec} \sin\psi_{spec} r \sin\phi$.

with: $\rho^2 = \rho_{spec}^2 + r^2 + \rho_{spec} r \cos\psi_{spec} \cos\phi + \rho_{spec} \sin\psi_{spec} r \sin\phi$.

Column 10, line 52, replace: $\rho \leq R$ with $\rho \leq R$

Column 10, line 55, replace: $\frac{R^2 - \rho_{spec}^2 - r^2}{\rho_{spec}^r} \geq \cos\psi_{spec} \cos\phi + \sin\psi_{spec} \sin\phi$.

with: $\frac{R^2 - \rho_{spec}^2 - r^2}{\rho_{spec} r} \geq \cos\psi_{spec} \cos\phi + \sin\psi_{spec} \sin\phi$.

Column 10, line 59, delete equation: $\geq \cos\psi_{spec} \cos\phi + \sin\psi_{spec} \sin\phi$.

Column 11, line 5, replace: $\frac{R^2 - \rho_{spec}^2 - r^2}{\rho_{spec}^r} \geq \cos\psi_{spec} \cos\phi + \sin\psi_{spec} \sin\phi$.

with: $\frac{R^2 - \rho_{spec}^2 - r^2}{\rho_{spec} r} \geq \cos\psi_{spec} \cos\phi + \sin\psi_{spec} \sin\phi$.

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Column 11, line 10, delete equation: $\geqq \cos\psi_{spec}\cos\phi + \sin\psi_{spec}\sin\phi$.

Column 12, line 7, replace: $\beta'^2 = \frac{z_0^2}{z_0^2 + r^2} - \frac{2z_0 \sin\theta_0}{\sqrt{z_0^2 + r^2}} + \sin^2\theta_0$

with: $\beta'^2 = \frac{z_0^2}{z_0^2 + r^2} - \frac{2z_0 \sin\theta_0}{\sqrt{z_0^2 + r^2}} + \sin^2\theta_0$

Column 12, line 20, replace: $\frac{d\beta'}{dr} = \left(\frac{z_0^2}{z_0^2 + r^2} - \frac{2_{z_0}\sin\theta_0}{\sqrt{r^2 + z_0^2}} + \sin^2\theta_0\right)^{-\frac{1}{2}} \left(\frac{z_0^2 r}{\left(z_0^2 + r^2\right)} - \frac{z_0 r \sin\theta_0}{\left(z_0^2 + r^2\right)^{(3/2)}}\right)$.

with: $\frac{d\beta'}{dr} = \left(\frac{z_0^2}{z_0^2 + r^2} - \frac{2_{z_0}\sin\theta_0}{\sqrt{r^2 + z_0^2}} + \sin^2\theta_0\right)^{-\frac{1}{2}} \left(\frac{z_0^2 r}{\left(z_0^2 + r^2\right)} - \frac{z_0 r \sin\theta_0}{\left(z_0^2 + r^2\right)^{(3/2)}}\right)$.

Column 12, line 37 replace: $\frac{dp}{d\Omega} = \frac{1}{I_s l(r) r}\left(\frac{d\beta'}{dr}\right)\frac{dBRDF}{d\beta'}$.

with: $\frac{dp}{d\Omega} = \frac{1}{I_s \ell(r) r}\left(\frac{d\beta'}{dr}\right)\frac{dBRDF}{d\beta'}$.

Column 13, line 63, replace: $\text{BRDF} = \int_{b*} \frac{dp(|\beta - \beta_0|)}{d\Omega}\sqrt{k_1}\left|\frac{\partial(\theta,\phi)}{\partial(k_1 k_2)}\right| dk_1 dk_k$.

with: $\text{BRDF} = \int_{b*} \frac{dp(|\beta - \beta_0|)}{d\Omega}\sqrt{k_1}\left|\frac{\partial(\theta,\phi)}{\partial(k_1 k_2)}\right| dk_1 dk_2$.

Column 15, line 3, replace: $\frac{\partial\phi}{\partial k_1}$, with: $\frac{\partial\phi}{\partial k_2}$,

Column 15, lines 32-33,
replace: $\cos^{-1}(\sin\theta_1\cos\phi_1\sin\theta_2\cos\phi_2 + \sin\theta_1\sin\phi_1\sin\theta_2\sin\phi_2 + \cos\theta_1\cos\theta_2) \leqq \alpha$

with: $\cos^{-1}(\sin\theta_1\cos\phi_1\sin\theta_2\cos\phi_2 + \sin\theta_1\sin\phi_1\sin\theta_2\sin\phi_2 + \cos\theta_1\cos\theta_2) \leq \alpha$

Column 16, line 37, replace: "l(r)" with $\ell(r)$

Column 16, line 45, replace: $\geqq \cos\psi_{spec}\cos\phi + \sin\psi_{spec}\sin\phi, and$

with: $\geq \cos\psi_{spec}\cos\phi + \sin\psi_{spec}\sin\phi, and$

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Column 16, line 50, replace: : $$\frac{d\rho}{d\Omega}=\frac{1}{I_s l(r)r}\left(\frac{d\beta'}{dr}\right)\frac{dBRDF}{d\beta'}.$$

with: $$\frac{d\rho}{d\Omega}=\frac{1}{I_s \ell(r)r}\left(\frac{d\beta'}{dr}\right)\frac{dBRDF}{d\beta'}.$$

Column 17, line 19, delete: "; and"

Column 17, line 20, replace: $\rho_{spec}{}^{2}=\rho_0{}^{2}-2\rho_0 z_0\cos\psi_0\tan\theta_{spec}+z_0{}^{2}\tan^2\theta_{spec}$

with: $\rho_{spec}^2=\rho_0^2-2\rho_0 z_0\cos\psi_0\tan\theta_{spec}+z_0^2\tan^2\theta_{spec}$

Column 17, line 22, add: "; and" before "(c)".

Column 17, line 30,

replace: $\cos^{-1}(\sin\theta_1\cos\phi_1\sin\theta_2\cos\phi_2+\sin\theta_1\sin\phi_1\sin\theta_2\sin\phi_2+\cos\theta_1\cos\theta_2)\underline{\leq}\alpha$

with: $\cos^{-1}(\sin\theta_1\cos\phi_1\sin\theta_2\cos\phi_2+\sin\theta_1\sin\phi_1\sin\theta_2\sin\phi_2+\cos\theta_1\cos\theta_2)\leq\alpha$

IN THE CLAIMS:

Column 21, line 15, replace: $$\mathrm{BRDF}=\frac{1}{\mathrm{P}_i}\frac{1}{\Omega_i}\int_{\Omega i}\int_{\mathrm{Ares}}\int_{\Omega d}\frac{d^2\mathrm{P}_i}{d\Omega_i dA}\frac{d\mathrm{p_d}(\Omega_i,\Omega_d,\mathrm{A})}{d\Omega_d}d\Omega_i dAd\Omega_d,$$

with: $$\mathrm{BRDF}=\frac{1}{\mathrm{P}_i}\frac{1}{\Omega_i}\int_{\Omega i}\int_{\mathrm{Area}}\int_{\Omega d}\frac{d^2\mathrm{P}_i}{d\Omega_i d\mathrm{A}}\frac{d\mathrm{p_d}(\Omega_i,\Omega_d,\mathrm{A})}{d\Omega_d}d\Omega_i d\mathrm{A}d\Omega_d,$$

Column 21, line 29, replace "P_i is incident power of the electromagnetic radiation."

with -- P_i is the incident power of the electromagnetic radiation.--

Column 21, line 58, remove: "for" after "$|\beta-\beta_0|=\theta_i+\theta_d$".

Column 21, line 59, add: "for" before "being".

Column 21, line 65, replace: $$\mathrm{BRDF}=\int_{D^*}\frac{dp(|\beta-\beta_0|)}{d\Omega}\sqrt{k_1}\left|\frac{\partial(\theta,\phi)}{\partial(k_1 k_2)}\right|dk_1 dk_2,$$

with: $$\mathrm{BRDF}=\int_{D^*}\frac{dp(|\beta-\beta_0|)}{d\Omega}\sqrt{k_1}\left|\frac{\partial(\theta,\phi)}{\partial(k_1,k_2)}\right|dk_1 dk_2,$$

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PATENT NO. 7,119,903

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